

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : General Single-Phase

Product code : 11761531

|                       |                    |                             |                       |
|-----------------------|--------------------|-----------------------------|-----------------------|
| Frame                 | : G143/5T          | Locked rotor time           | : 10s (cold) 6s (hot) |
| Output                | : 2 HP (1.5 kW)    | Temperature rise            | : 80 K                |
| Poles                 | : 2                | Duty cycle                  | : Cont.(S1)           |
| Frequency             | : 60 Hz            | Ambient temperature         | : -20°C to +40°C      |
| Rated voltage         | : 208-230/460 V    | Altitude                    | : 1000 m.a.s.l.       |
| Rated current         | : 10.6-10.0/5.00 A | Protection degree           | : IP55                |
| L. R. Amperes         | : 74.2-70.0/35.0 A | Cooling method              | : IC411 - TEFC        |
| LRC                   | : 7.0x(Code K)     | Mounting                    | : F-1                 |
| No load current       | : 3.88-4.50/2.25 A | Rotation <sup>1</sup>       | : Both (CW and CCW)   |
| Rated speed           | : 3470 rpm         | Noise level <sup>2</sup>    | : 55.0 dB(A)          |
| Slip                  | : 3.61 %           | Starting method             | : Direct On Line      |
| Rated torque          | : 3.03 ft.lb       | Approx. weight <sup>3</sup> | : 47.3 lb             |
| Locked rotor torque   | : 250 %            |                             |                       |
| Breakdown torque      | : 240 %            |                             |                       |
| Insulation class      | : B                |                             |                       |
| Service factor        | : 1.15             |                             |                       |
| Moment of inertia (J) | : 0.0790 sq.ft.lb  |                             |                       |

|                |      |      |      |      |                  |         |
|----------------|------|------|------|------|------------------|---------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |         |
| Efficiency (%) | 67.7 | 69.0 | 73.0 | 74.0 | Max. traction    | : 39 lb |
| Power Factor   | 0.45 | 0.72 | 0.81 | 0.87 | Max. compression | : 87 lb |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6205 ZZ          | 6203 ZZ              |
| Sealing              | : | V'Ring           | V'Ring               |
| Lubrication interval | : | -                | -                    |
| Lubricant amount     | : | -                | -                    |
| Lubricant type       | : | Mobil Polyrex EM |                      |

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

| Rev.         | Changes Summary | Performed     | Checked  | Date |
|--------------|-----------------|---------------|----------|------|
|              |                 |               |          |      |
| Performed by |                 | Page<br>1 / 1 |          |      |
| Checked by   |                 |               |          |      |
| Date         | 25/03/2024      |               |          |      |
|              |                 |               | Revision |      |